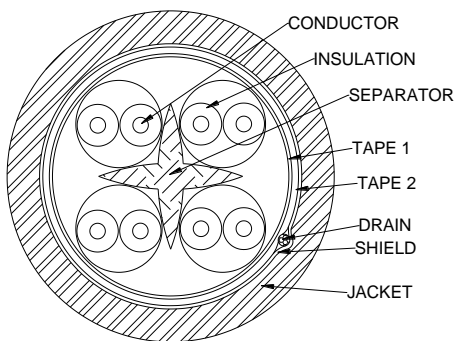


# HUB-Link<sup>®</sup>

## Category 6A F/UTP



### 1. Construction:

- 1.1. Conductors: 23 AWG Solid Bare Copper
- 1.2. Insulation: Cross-Linked Polyolefin 0.045" Nominal Diameter
- 1.3. Pair Assembly: Conductors Twisted to Varying Lays
- 1.4. Cable Assembly: 4 Pairs Cabled with a Separator to Form a Round Core
- 1.5. Tape 1: Aramid Tape
- 1.6. Tape 2: Flame Retardant Woven Fabric
- 1.7. Drain: 24 AWG Solid Tinned Copper
- 1.8. Shield: Aluminum/Polyester
- 1.9. Jacket: LSZH 0.363" Nominal Diameter

### 1.10. Jacket Print:

COMTRAN HUB-Link<sup>®</sup> CAT 6A SHIELDED 23  
 AWG C (UL) US CMG-ST1 OR (UL) CL3 FT4 WET LOCATION 90C  
 --- VERIFIED TO ANSI/TIA-568-D.2 CAT 6A (01-12345)  
 000002

(01-12345) = Traceability Code

000002 = Consecutive Sequential Footage Every Two Feet

### 2. Physical Characteristics:

- 2.1. Installation Temperature Rating: 0°C to +60°C
- 2.2. Operation Temperature Rating: -20°C to +90°C

### 3. Compliance:

- 3.1. ICEA S-116-732
- 3.2. UL Subject 444 Communications Cables
- 3.3. UL Subject 13, Power Limited Circuit Cables
- 3.4. UL Listed type CMG-LS, CL3
- 3.5. UL 1685, FT-4 Vertical Flame
- 3.6. IEEE 1202
- 3.7. NFPA 70 (NEC) Article 800
- 3.8. NFPA 130-2014 & 2017
- 3.9. NFPA 502
- 3.10. NES 713 for Toxicity Index < 2.0%
- 3.11. MIL-C-24643 Halogen Content < 0.2%
- 3.12. Acid gas content < 2.0%
- 3.13. ICEA T-33-655 (Smoke for Thermoplastic Type II jackets)
- 3.14. NEMA 63.1
- 3.15. For use in wet locations
- 3.16. California State Fire Marshal Approved
- 3.17. RoHS Compliant

### 4. Category Electrical Performance:

- 4.1. Voltage Rating: 300V
- 4.2. Max. DC Resistance: 9.38Ω/100m
- 4.3. Max DC Resistance Unbalance: 5.0%
- 4.4. Nominal Velocity of Propagation: 68%
- 4.5. Max Propagation Delay Skew: 45 ns/100m
- 4.6. Verified to ANSI/TIA-568-D.2

TITLE:	DESCRIPTION				
<b>HUB-Link<sup>®</sup></b> <b>CAT6A</b> <b>F/UTP</b>	4 Pair 23 AWG Solid Bare Copper Category 6A Shielded	<b>Comtran</b> 330A Turner Street South Attleboro, MA 02703 Phone: 508-399-7004 Fax: 508-399-8839		 <b>COMTRAN</b> <small>Innovative Systems. Engineered Solutions.</small>  <small>A Marmon Wire &amp; Cable/Berkshire Hathaway Company</small>	
Rev	Date	Detail	Eng.	App.	
7	12/16/21	Update print and performance	PB	BD	
6	8/9/21	Updating the print legend	KB	PB	
5	5/13/19	Rebranding	KB	PB	
4	10/17/18	Update Compliance section	DG	WC	
3	07.20/18	Update diameter to reflect current build	PB	WC	
2	03/02/18	Created Family Specification	PB	WC	

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# HUB-Link<sup>®</sup>

## Category 6A F/UTP

### Category 6A Electricals

(Per ANSI/TIA 568-C.2)



Char. Impedance		Return Loss	Attenuation	NEXT	PSNEXT	ACRF	PSACRF
Freq.	(Ohms)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)
(MHz.)	(+/-15)	(Min)	(Max)	(Min)	(Min)	(Min)	(Min)
1	100	20.0	2.0	74.3	72.3	67.8	64.8
4	100	23.0	3.8	65.3	63.3	55.8	52.8
8	100	24.5	5.3	60.8	58.8	49.7	46.7
10	100	25.0	6.0	59.3	57.3	47.8	44.8
16	100	25.0	7.5	56.2	54.2	43.7	40.7
20	100	25.0	8.4	54.8	52.8	41.8	38.8
25	100	24.3	9.4	53.3	51.3	39.8	36.8
31.25	100	23.6	10.5	51.9	49.9	37.9	34.9
62.5	100	21.5	15.0	47.4	45.4	31.9	28.9
100	100	20.1	19.1	44.3	42.3	27.8	24.8
200	100	18.0	27.6	39.8	37.8	21.8	18.8
250	100	17.3	31.1	38.3	36.3	19.8	16.8
300	100	16.8	34.3	37.1	35.1	18.3	15.3
400	100	15.9	40.0	35.3	33.3	15.8	12.8
500	100	15.2	45.3	33.8	31.8	13.8	10.8

### Category Color Code

Color Code	
Pair 1	Blue-White/Blue
Pair 2	Orange-White/Orange
Pair 3	Green-White/Green
Pair 4	Brown-White/Brown

### Part Numbers

Part#	Color
36472	Black
36473	Gray
36474	White
36475	Blue

<b>TITLE:</b>		<b>DESCRIPTION</b>		<b>Comtran</b> <b>330A Turner Street</b> <b>South Attleboro, MA 02703</b> <b>Phone: 508-399-7004</b> <b>Fax: 508-399-8839</b>		 <b>COMTRAN</b> <small>Innovative Systems. Engineered Solutions.</small>  <small>A Marmon Wire &amp; Cable/Berkshire Hathaway Company</small>	
<b>HUB-Link<sup>®</sup></b> <b>CAT6A</b> <b>F/UTP</b>		4 Pair 23 AWG Solid Bare Copper Category 6A Shielded					
Rev	Date	Detail		Eng.	App.		
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